

### REMARKS

The Official Action of 2 May 2007 has been carefully considered and reconsideration of the application as amended is respectfully requested.

The claims have been amended to remove the bases for the claim objections appearing at paragraph 3 of the Official Action and the claim rejections appearing at paragraph 6 of the Official Action. The claims have also been amended to remove the basis for the rejections under 35 USC 101 appearing at paragraph 4 of the Official Action. New claims 13 - 16 have been added more completely to define the subject matter which Applicants regard as their invention.

The claim recitations added in the amended claims and the claim recitations in the new claims draw clear support from the specification as filed at, for example, the paragraph bridging pages 1 and 2, the first full paragraph on page 2, the last paragraph on page 5 and original claim 12. All claims as amended are respectfully believed to be sufficiently definite to satisfy the dictates of 35 USC 112, second paragraph

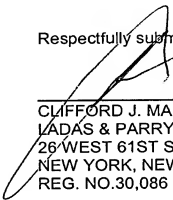
Claim 1 was rejected under 35 USC 103(a) as allegedly being unpatentable over Butland. Applicants respectfully traverse this rejection.

The invention defined by claim 1 as amended is directed to a computing device which uses a DNA based number system, wherein the value of the DNA

bases in the recited DNA based number system is positional. In contrast, in the cited reference, DNA bases are used for character representation, and the reference does not show or suggest that the DNA bases described therein have a value that is "positional", i.e. based on the position of the base in a plurality of bases. Accordingly, Butland cannot teach or suggest a DNA based number system as claimed and *a fortiori* cannot teach or suggest a number system that permits, for example, basic arithmetic. Accordingly, Butland cannot set forth even a *prima facie* case of obviousness for the invention as claimed.

In view of the above, Applicants respectfully submit that all rejections and objections of record have been overcome and that the application is now in allowable form. An early notice of allowance is earnestly solicited and is believed to be fully warranted.

Respectfully submitted,



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